



# The Raleigh Amateur Radio Society's **EXCITER**

## GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



## PUBLIC SERVICE EVENTS

Interested in helping? Visit <http://www.rars.org/public-service.php>

frequently for our 2015 ham public service schedule.

Also see [page 19](#) for more info.

## RARS General Meeting

**Topic:** World Radiosport Team Championship  
By Nate Moersch, N4YDU. See [page 5](#). for information about this presentation.

**Date:** September 8, 2015

**Time:** Meeting at 7:30 p.m.

*Informal gathering and refreshments from 7 - 7:30 p.m.*

**Where:** Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh  
*New HAM / Elmer meeting, 6:00 p.m. before member meeting*

*Tadd Torborg, KA2DEW, Elmer Coordinator*

[Click here for more information.](#)

## President's Message

The Nominations Committee consisting of Chuck Littlewood, K4HF, and Murray Merner, K4MHM, was created by the Board on Aug 18 and will present the slate at the Oct Member Meeting. It takes a lot of people to run RARS. The Nominations Committee will spend time finding and interviewing people for the offices. If you have an interest, let the Committee know. Even after the slate is presented, there will be an opportunity for nominations from the floor at the Nov Meeting before the election. If you want to

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## RARS Officers

### **PRESIDENT**

Murray Merner  
K4MHM  
919-803-7973  
[K4MHM@arrl.net](mailto:K4MHM@arrl.net)

### **VICE PRESIDENT**

Tom Lewis  
N4TL  
[n4tl2@yahoo.com](mailto:n4tl2@yahoo.com)

### **SECRETARY**

Bob Chew  
K4YXM  
919.782.5778  
[rlchew@mindspring.com](mailto:rlchew@mindspring.com)

### **TREASURER**

Greg Seamster  
KE4PAX  
919.859.0029  
[ke4pax@arrl.net](mailto:ke4pax@arrl.net)



## The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website ([www.rars.org](http://www.rars.org)).

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## *Exciter*

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at [www.rars.org](http://www.rars.org). Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor ([editor@rars.org](mailto:editor@rars.org))

## For Your Information

### RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011  
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

### RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

### RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

### VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit [www.rars.org](http://www.rars.org) for more information.

### President's Message continued

participate in the operation of RARS or feel it should be going in another direction, run for office. It's your club.

The repeaters renovations have taken a positive turn. The 444.525 repeater may be operational by the time you get this Exciter. A lot of time, effort and money have gone into the upgrade project. Karl Bowman, W4CHX, Chairperson of the Repeater Committee, will share more details later, but things are definitely looking up. Way to go Karl and your team.

Director-at-Large, Raymond Lefrancois, NC4OO, (the guy at the sign-in table) has brought up the subject of getting the younger generation (your children, or grandchildren) interested in RARS and Amateur Radio. Our involvement with the Boy Scouts is along that line, but there can be other efforts to bring the next generation of hams along. Ideas are being developed, but you might have some too - let Raymond know. Think about bringing that younger generation to a youth oriented program.

Vice President Tom Lewis, N4TL, is always looking for ideas. He pretty much has the rest of the year covered, but if you have an idea or want to present, let him know.

Public Service is a way to help our community and have fun. Check out our website to get event schedules and register.

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The Amateur Radio Parity Act of 2015 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The 2015 bills have been introduced as H.R. 1301 and S. 1685. Let your Representative and Senator know your preferences. A letter to the House or Senate with the person's name will get to them. A personal visit would be even better – please be respectful of their office.

We want to get to know what you want as a member of RARS. There will be surveys to get that information. Please take a minute to give your opinion.

73,  
Murray, K4MHM  
Amateur Radio, pass it on.

## **Scouting**

The BSA Jamboree-on-the-Air will be Oct 17 at the Occoneechee Council HQ in Raleigh on Atlantic Ave. We could use some help. Contact Charles Good, KM4AMT Scouting Coordinator if you are interested. We can still use some Subject Matter Experts to help with the Electricity, Electronics and Radio Merit Badges. RARS has been invited to participate in the Scouting University on Nov 7 where we will tell the "Scouters" (leadership) about Amateur Radio. There will be some Camporee opportunities in 2016.

[www.scouting.org/jota.aspx](http://www.scouting.org/jota.aspx)  
73, Murray, K4MHM

## **Education Director**

The General Class course will finish on Oct 29 and the Amateur Extra Class course will start Oct 3 (7 sessions). The current Extra Class question pool expires June 30, 2016. The Extra course will be the last course of the year and we will start planning the 2016 session soon. We know we can't fit everybody's schedule, but we try to get the schedule out soon enough to give students as much as lead time as we can.

73, Murray, K4MHM

## Amateur Radio Extra Class License Course

Raleigh Amateur Radio Society

Original Announcement Date:  
August 10, 2015

A seven session **Amateur Extra Class License Course** will be conducted by the Raleigh Amateur Radio Society. To earn a specific license, one must pass that level exam plus pass all exams below that level. In this case, the Technician Class and General Class exams must be passed in addition to passing the Amateur Extra Class exam in order for the Amateur Extra Class license to be awarded.

**When:** Oct 3, 10, 17, 24, 31, Nov 7, 14. The sessions will begin at 8:00 a.m. and end around 12:30 p.m. **Please note** that this course will not be offered again until this time next year.

**Where:** Raleigh, NC. Specific location will be provided upon pre-registration.

**Volunteer Instructor:** Mike Murphy, WA4BPJ, has an Extra Class license and has been teaching since the 1970s and has conducted as many as 60 courses. In addition to this course,

he also teaches the Technician and Extra courses.

**Fee:** The fee is \$10.00 (payable at the first session)

**Course Text:** The required manual is the current edition of: **The ARRL Ham Radio License Manual – Level 3, Extra Class License Manual, 10<sup>th</sup> Edition (ISBN: 978-0-87259-517-0)** (good until 2016-06-30 – we won't be doing another Extra course before then) and is available online (i.e. ARRL, Amazon, etc.).

**Examination:** An **optional** examination is scheduled for the afternoon of the last session for the convenience of the students. This is done by a separate group of RARS Volunteer Examiners and there is a separate fee.

**Pre-Registration:** E-mail me **your phone number and call sign**. A registration form and other details will be e-mailed to you.

**Next Course: Technician Class** course early 2016

Murray Merner, K4MHM  
RARS Education Director  
[k4mhm@arrl.net](mailto:k4mhm@arrl.net) (preferred)  
919-803-7973

### RARS August Birthdays

Marv	KM4MDY	09/01
Ryan	KM4KRV	09/02
Jimmie	KM4DJR	09/02
Jack	K4WFJ	09/02
Andy	KD4FHF	09/04
Eric	KM4JPT	09/05
Steven	KM4IFX	09/05
Mary Jo	K4MJL	09/05
Lou	K4BYN	09/07
John	KW4LT	09/10
John	N4YRB	09/12
Sam	NC4SJ	09/13
Al	NC4AL	09/13
Pat	KM4MNG	09/14
Robert	W4MBD	09/16
Todd	KM4JPO	09/18
Larry	K4MWE	09/22
Steve	KI4YXJ	09/25
Justin	AJ4MJ	09/25
Gregory	KM4ASB	09/27
Carolyn	KC4EYK	09/27
Leon	KB4KSA	09/27
Jason	KM4JPZ	09/28
George	AB3GR	09/30

### RARS New Members

Rob Cox	KM4MLY
John Lawler	KM4MMA
Quentin Fanelli	KM4MLZ
John Morris	KW4LT
Christopher Meyehoeffer	Not Licensed
Pastor Smith	KM4MUV
Jim Montgomery	KM4MUX
Garry Wall	KM4MMC
Olivia Mikula	KM4MUT
Justin Sipes	KM4JPY
George Polich	AB3GR
Vianne Pendleton	KM4MMB
Stan White	KI4NC





## RARS 444.525 repeater is on the air!

We are pleased to announce that the RARS 444.525 repeater is on the air!

444.525 (+), no tone (for the time being)

Thanks to everyone involved in the repair and restoration of the repeater shack at the Bayleaf Tower site, which was required prior to installation of this repeater. And, thanks to the RARS members for your patience with this project.

Karl Bowman, W4CHX, RARS FM Repeater Chair

Chuck de Court, W3WZN, RARS Member and ARRL NC Section State Government Liaison

Danny Hampton, K4ITL, RARS Honorary Member and ARRL NC Section Technical Coordinator



Danny Hampton, K4ITL checking for repeater "desense" using a model IFR 500 Service Monitor.



Chuck Decourt W3WZN and Murray Merner, K4MHM checking on repeater power output and SWR.



RLC-CLUB Repeater Control System, Kenwood 444.525 repeater, and Telewave Inc Duplexer mounted in rack.



Pictured are the students of the General Class course which ended Aug 31 and instructor Mike Murphy, WA4BPJ and Education Director Murray Merner, K4MHM .





## World Radiosport Team Championship 2014

This months presentation will be about the World Radiosport Team Championship (WRTC). It is a competition between two-person teams of amateur radio operators testing their skills to make contacts with other Amateur Radio operators around the world over a 24 hour period. All teams use identical antennas from the same geographic region, eliminating all variables except operating ability.

WRTC2014 included 59 competing teams from 29 qualifying regions around the world. Competitors represented 38 different countries.

The presentation will be by Nate Moreschi, N4YDU, President of the North Carolina chapter of the Potomac Valley Radio Club .

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## **PVRC-NC**

The Potomac Valley Radio Club is a Ham Radio Contesting club. It is open to anyone who is interested in contesting. Or if you just want to meet other HF ham radio operators that live in the area. **The Triangle [NC-East] Chapter** of the Potomac Valley Radio Club holds its meeting monthly on the 1st Thursday of most months. The NC-East chapter meet-

ings are held at Manchester's Bar and Grill on the 9100 block of Leesville Rd. in North Raleigh, with "QRM" beginning at or just before 5:30 to 6:00pm, and the dinner meeting following shortly thereafter. Cancellations or changes usually announced on the PVRC-NC website.

All contesters and interested guests are invited!

## **Swan Island DX Association**

Raleigh, North Carolina

The Swan Island DX Association is group of amateur radio operators in the Raleigh, North Carolina area who enjoy chasing DX. Their website is out of date. Talk to Tom N4TL if you are interested in DXing.



Murray, K4MHM presiding  
over a RARS meeting

## **DX Information**

### **South Sandwich VP8STI & South Georgia VP8SGI DXpedition, 2016**

The Intrepid-DX Group is proud to announce a major ham radio expedition to two rare entities in January-February 2016. South Sandwich Island and South Georgia Island are two of the most remote places on Earth. This DXpedition is made possible by the generous financial support of the global DX Community. For more information go to this website, <http://www.intrepid-dx.com/vp8>.

### **Heard Island DXpedition in 2016**

What is the Heard Island expedition? It is a major scientific/communications expedition to Heard Island, an Australian subAntarctic island lying at 53°S 73°E. The island is extremely isolated and subject to extreme conditions. The theme of the expedition is “Discovering Life and Innovative Communications on the Most Extreme subAntarctic Island.” The project includes a search for unknown species and development of real-time communications technology for connecting remote sites with continental laboratories and personnel. When will the expedition happen? The voyage is scheduled for March 8 – April 22, 2016, with the stay on Heard Island about March 18 – April 10. For more information go to this website, <http://vk0ek.org/heard-island-3> or this one <http://vk0ek.org/>

### **Future RARS 2015 Meeting Topics**

**October 13, 2015** RARS Officers nominations

& RARS Auction

**November 10, 2015** RARS Officers election and Show and Tell.

Titles, topics, and speakers subject to change.

**December 8, 2015,** RARS pot luck Holiday party and

RARS Officers induction.

## Convoy on the Air

There is a convoy of antique military vehicles sponsored by the [Military Vehicle Preservation Association](#) passing through Raleigh. It starts in Washington, DC on Sep 19 and retraces the route of the second Transcontinental Motor Convoy of 1920 through VA and overnights in Raleigh on Sunday Sep 20 (State Fairgrounds). The convoy would enjoy having you visit them at the fairgrounds. The vehicles then pass through: SC, GA, AL, MS, AR, TX, NM, AZ and end in San Diego, CA Oct 17.

There will be an Amateur Radio “Special Event” for the time the convoy is traveling. Each state will try to have Amateur Radio Operators on the air daily. The mode of transmitting and the times on the air is up to the individual operator. In addition, a special event station will be located at most of the overnight locations of the convoy. The stations will have special

1 x 1 call signs for the event. There will be special QSL cards made for the event and will focus on an antique military vehicle and the participating Amateur Radio club. Certificates for a “Clean Sweep” of all the states will be available upon submission of logs (by hand or computer in ADIF format) and a small fee.

They will not be doing this again until 2018 when they will be traveling down the legendary Route 66.

More details of route schedule, transmission times and modes and log submission information will be on the COTA website: [www.ConvoyOnTheAir.org](http://www.ConvoyOnTheAir.org) and MVPA will have their own web site: [www.MVPA.org](http://www.MVPA.org) as well.

73, Murray, K4MHM



## August RARS meeting presentation about uninterruptable power supplies, UPS.

Mike Jackson from Eaton gave the presentation during the August 11, 2015 RARS meeting. Mike is the Product Manager for Single Phase UPS systems in Eaton's Distributed Power Quality Division in Raleigh, North Carolina. He brought an Eaton 5P 750 Tower UPS to show everyone what one looked like. At the end of the presentation the UPS was raffled to the RARS members present. Charles Good, KM4AMT won the UPS.

Mike explained the differences in Standby, Line-interactive and double-conversion UPS. I copied the following from Eaton's website.

[Standby](#) UPSs — these smaller UPSs provide an economical source of protection from power outages, surges and sags. If you just need basic protection for small systems like desktops and cash registers, a small standby UPS like the Eaton 3105 is your best choice.

[Line-interactive UPSs](#) — If you need a voltage regulation and power protection for moderate loads (500VA to 6 kVA), particularly for commercial or office applications, a line-interactive UPS like the Eaton 5125 or Eaton Evolution/S is your best bet.

[Double-conversion](#) UPSs — These UPSs convert raw power coming in to refined power through a process of double conversion. They change it from dirty [AC](#) to [DC](#), clean it and then convert it back to AC. For very sensitive, expensive equipment that needs clean, true [sine-wave](#) power, a [double-conversion](#) UPS like the Eaton 9355 or Eaton MX is the smart pick.

Mike also explained what power problems are solved by these different UPS designs. For a list of power problems refer to the diagram on the next page. The [Standby](#) unit helps with first three problems which are power failures, power sags and power surges. The [Line-interactive UPS](#) design solves those three problem and also helps with the next three problems which are under voltage, over voltage and electrical line noise. The [double-conversion](#) UPS helps with all nine of the problems listed on the next page.

Eaton extends battery life through its unique advanced battery management (ABM) technology. This two minute YouTube video explains how it works. <https://www.youtube.com/watch?v=dZ90zf8Wz4>

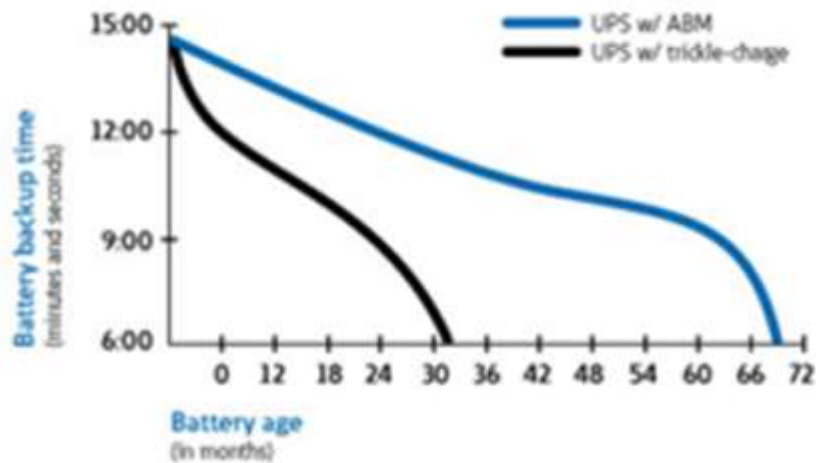
Remember batteries don't last forever. They need to be changed after a few years. Eaton's ABM system will let you know when it is time to change the battery. An older battery will not have the run time of a new one. Run Time is how long the UPS can keep the output on while there is a power outage.










One nice feature is that the UPS can be connected to your computer and the UPS will tell the computer to shut down when the UPS is running on battery and run time is getting low. This requires that you install the Eaton software on your computer and you configure the software to shut down the computer when the run time is low.

The first diagram on the next page shows the Battery run time verses battery age. As the batteries age the run time decreases.

The next chart shows the [nine possible problems with utility power](#) .





Power Problem		Definition
1	Power Failure	 When a superhero loses his ability to fly or a <b>total loss of utility power</b> .
2	Power Sag	 Post-lunch sleepiness or <b>short-term low voltage</b> .
3	Power Surge (Spike)	 Rush of energy following a double shot of espresso or <b>short-term high voltage more than 110% of normal</b> .
4	Under-voltage (Brownout)	 When your amp's too wimpy to handle the bass line or <b>reduced line voltage for an extended period of a few minutes to a few days</b> . Often happens during the summer months when everyone is cranking up their air conditioners.
5	Over-voltage	 Inhuman cheerfulness exuded by aerobics instructors or <b>increased line voltage for an extended period of a few minutes to a few days</b> .
6	Electrical Line Noise	 Excuse you use to get off the phone quickly or a <b>high power frequency power wave caused by radio frequency interference (RFI) or electromagnetic interference (EMI)</b> .
7	Frequency Variation	 Fluctuation in how often you do laundry from week to week or a <b>loss of stability in the power supply's normal frequency of 50 or 60 Hz</b> .
8	Switching Transient	 Breaking up with your significant other only to get back together every six months or <b>instantaneous under-voltage in the range of nanoseconds</b> .
9	Harmonic Distortion	 "Music" blaring from your nephew's headphones or <b>the distortion of the normal power wave, generally transmitted by unequal loads</b> .



# Minutes

## Raleigh Amateur Radio Society Board of Directors Meeting July 21, 2015

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*Present:* Bob K4YXM, Joanne AK4RJ, Chuck K4HF, Raymond KK4OOQ, Tom N4TL, Dennis NC4DK, Bill AK4BL

*Regrets:* Murray K4MHM, Karl W4CHX, Hank K4HM, Marty W4MY, Greg KE4PAX

*Guest:* Alan AB4OZ

1. Call to order (Tom N4TL presiding in Murray's absence): The meeting was called to order at 7:05 pm.
2. A quorum was present
3. There was no change to the agenda.
4. Approval of minutes (Tom N4TL): The minutes of the June 9<sup>th</sup> meeting were approved as corrected.
5. Vice President's report (Tom N4TL): Tom reported that the August presentation will be by Mike Jackson from Eaton Corporation. The topic will be Uninterruptible power supplies (UPS).
6. Treasurer's report (Greg KE4PAX): No report. Bob reported that he could not attend the financial review the first week of August. Tom N4TL appointed himself to attend the review
7. Secretary's report (Bob K4YXM): No report
8. Committee reports:
  - a. Public Service Director (John AI4RT): No Report Bob will email John and tell him the board is close to approving an official logo and does John wish to pursue giving golf shirts to members will certain levels of public service activity.
  - b. Education Director (Murray K4MHM): Murray absent. Tom reported that he completed the forms necessary to have classes at Wake Tech and sent them to Wake Tech.
  - c. Public Information Officer (Charles KM4AMT): No report.
  - d. Immediate Past President (CJ NC4CJ): No report.
  - e. Director-at-Large (Bill AK4BL): No report
  - f. Director-at-Large (Raymond KK4OOQ): Deferred to new business.
  - g. ARRL liaison Chuck K4HF ARRL dues are going up. The Executive Secretary for ARRL is retiring.
  - h. ARRL NC Section Mgr. (Karl W4CHX): No report.
  - i. Scouting Coordinator (Charles KM4AMT): No report.

- j. FM Repeater Chair (Karl W4CHX): No report.
- k. Exciter Chair (Tom N4TL): Needs input by August 1<sup>st</sup>.
- l. Food Service Chair (Joanne AK4RJ). No Report
- m. Webmaster (Hank K4HM): No report.
- n. RARSfest: (vacant): Chuck K4HF reported that we still do not have a firm date for 2016 RARSfest.
- o. Field Day Chair (Dennis NC4DK): Dennis reviewed what transpired on Field Day and he felt that all went well.
- p. North Carolina QSO Party (Marty W4MY): No report.
- q. W4DW/W4RNC Trustee (Jeff AC4ZO): No report
- r. Net Manager (Mary KG4OQA): No report

9. Old business:

- a. Job Descriptions: Send to Murray.
- b. Club Logo: Dennis reported on his work on developing a club logo. After reviewing good and bad logos of other organizations, the board asked Dennis to focus on using the globe in current patch as a starting point. The logo would have “RARS” across the globe. There would be no wording. Words could be added to produce special shirts or jackets.
- c. Club shirts: Action on club shirts will be deferred until a logo is selected.
- d. Present by electronic device: Chuck moved that the board table this topic. The motion was seconded and passed.
- e. Member Survey: Consensus was that we consider having members respond to a particular topic when they sign in.

10. New business:

Since August is the national “Take your children to work” day, Raymond KK4OOQ asked what RARS could do to get more participation by children. It was suggested that he survey members during sign in at the August meeting.

- 11. Adjournment (Tom N4TL): The meeting was adjourned at 8:32 pm.

Respectfully submitted,

Bob Chew, K4YXM

RARS Secretary

# MINUTES

## Raleigh Amateur Radio Society General Membership Meeting August 11, 2015

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1. Call to order: Murray K4MHM called the meeting to order at 7:31 PM. There were 45 members in attendance which constituted a quorum.
2. Introduction of New Members and Visitors. NM: George Polich, AB3GR, Christopher Meyerhoffer; V: Diana Brown, Robin Myers, John KG4AKV, Sammie Ammons and Emily Silva.
3. Approval of minutes. The minutes of the general membership meetings of July 14, 2015 were approved as presented.
4. Health and Welfare: No report.
5. Secretary's report (Bob K4YXM) no report
6. Treasurer's report (Greg KE4PAX): Greg was not present. Murray read his report. We currently have 305 members. People were reminded to renew their membership. If anyone has questions regarding the report they should contact either Greg KE4PAX or Murray K4MHM.
7. President's Remarks (Murray K4MHM); Murray commented on the demographics of club membership and the fact we need to attract younger members. One of these ways is participation with Boy Scouts. He announced that RARS will be sponsoring a JOTA station Oct 17 and urged members to participate.
8. Vice President's report: Next month's topic is Wake Radio Sport Championship presented by Nathan N4YDU.
9. Reports and announcements from RARS Board members and others:
  - a. Public Service: In John's AI4RT absence, Murray asked people to go to the RARS web site, review upcoming events and sign up.
  - b. Education: Murray reported that the General Class course has started. An Extra Class course will begin on October 3rd and run for seven weeks.
  - c. Repeaters: Karl's email report states that the 440 repeater is ready to be installed.

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- d. Jerry W2GLA, talked about lobbying your representative to congress regarding pending PRB-1 legislation. He was asked to develop a proposal and e-mail it to Murray.

10. Gift Raffle: Winners were: Dave K4SAN, Don NJ2E, Antoinette KK4TTX and Diana Brown.

11. Program:

- a. Samantha Ammons and Emily Silva gave a presentation on Bike MS to be held Sep 12-12 near New Berne, NC. Contact information is: 919-792-1014 or Samantha.Ammons@nmss.org
- b. Uninterruptible power supplies (UPS) by Mike Jackson from Eaton Corporation.

12. Adjournment: The meeting was adjourned at approximately 9:02 PM. Murray asked all new members to come to the front of the room so members could meet them.

Respectfully submitted,

Bob K4YXM

RARS Secretary.



1939 Seeburg  
Symphonola  
Classic Jukebox

1939  
Zenith  
9-S-367  
Console  
Radio



## Current Public Service Opportunities

### Copied from the RARS website

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**To volunteer for a Public Service event please complete the form at the top of this page.**

*The Ham Public Service Net meets on Wednesday at 7:30 pm on the Carolina 440 Link System. We use the following repeaters:*

441.725(+)(100) – Raleigh, NC Hub  
443.450 (+)(100) – Cane Mt., Snow Camp, NC  
444.325 (+)(100) – Holly Springs, NC  
444.375 (+)(100) - Henderson, NC  
444.550 (+)(100) – Coats, NC  
444.775 (+)(100 – Cary, NC  
444.875 (+)(100) – Wendell, NC  
145.330 (-)(100) – Goldsboro, NC  
442.250 (+)(107.2) - McCain/Southern Pines, NC  
444.200 (+)(179.9) - Johnsonville, NC  
444.025 (+)(100) - Benson, NC  
442.425 (+)(100) - Buxton, NC

*(The net is also accessible through IRLP Reflector 9210)  
The Ham Public Service Yahoo Group link is: Ham*

### **WELCOME TO THE HAM PUBLIC SERVICE EVENT SIGNUP PAGE.**

**Choose the event(s) for which you would like to volunteer and fill out the form at this [link](#) for each event that you are volunteering.**

### **2015 MS BIKE RIDE**

**September 12-13, 2015 - Saturday/Sunday - New Bern, NC**

The Bike MS: Historic New Bern Ride is a two-day cycling event that raises funds to support people living with multiple sclerosis in the Carolinas and throughout the United States. Money raised through this event funds MS research, programs, services, and advocacy. This year, over 2000 cyclists and volunteers will participate in the event.



The unique and inviting waterfront location of Union Point Park provides the perfect start and finish line for Bike MS. The coastal location, flat landscape, and miles of rural roads allow every level of cyclist to participate and enjoy their choice of routes each day. No matter how far you ride, enjoy great routes, stocked rest stops along the route every 10-15 miles, SAG (support and gear) vehicles, delicious meals, a festive Team Village and finish line experience, and so much more!

Ham volunteers are needed for SAG support, shadows, course monitoring and more.

- \* Raleigh Ham Volunteer Coordinator: John (ai4rt)
- \* Overall Ham Volunteer Coordinator: Bill (k4vho)
- \* Event Website: [MS Bike Ride](#)
- \* **To Volunteer fill out the form at this [link](#).**

## **TOUR d'ORANGE**

**September 19, 2015 - Saturday - Hillsborough, NC**

- \* **To Volunteer fill out the form at this [link](#).**

## **CFF CYCLE FOR LIFE**

**September 26, 2015 - Saturday - Raleigh, NC**

Get your wheels in motion and join us for our 3rd Annual Actavis+Allergan CF Cycle for Life as we ride through some of the most picturesque and scenic terrain in Raleigh. The Actavis+Allergan CF Cycle for Life is a fully-supported ride with route options of 30 and 65 miles. From breakfast to our cycle post party, you can enjoy fully stocked rest stops every 10-12 miles, bike mechanics for bicycle maintenance and repair, ride marshals to cheer you along the way and plenty of support vehicles to help you complete the ride. This unique event empowers participants to take action and demonstrate their fight in finding a cure for cystic fibrosis in a tangible, emotional and powerful way.

- \* Ham Volunteer Coordinator: John (ai4rt)
- \* Location: Lafayette Village, 8450 Honeycutt Rd. (At Falls of Neuse Rd.), Raleigh, NC 27615
- \* Time: Operators Meeting 7:00 AM - Parking Lot
- \* Event Website: [Cycle for Life](#)
- \* **To Volunteer fill out the form at this [link](#).**

## **BEACH 2 BATTLESHIP TRIATHLON**

**October 17, 2015 - Saturday - Wilmington, NC**

It's that time of year for the Beach 2 Battleship Triathlon in Wilmington. Turnout is ex-

pected to be the largest yet. This means that New Hanover County ARES will need more help than ever!

For those of you who don't know, Beach 2 Battleship is an Iron Man Triathlon consisting of a 2.4 mile swim, a 112 mile bicycle ride and a 26.2 mile run, raced in that order and without a break. Due to the size of the course which will span multiple counties including areas without cell service, amateur radio operators play a vital role in communications for this event. Amateur radio operators will be placed at aid stations and in SAG (support and gear) vehicles along the course to pass messages to net control.

Volunteers will receive a free t-shirt and will be invited to the volunteer dinner before the race for some delicious free food! This is a really fun event and your participation goes a very long way in serving the community. As in years past, proceeds from the event support the YMCA and will be one of their largest sources of donations.

\* Website: [B2B](#)

**If you are interested in volunteering, please email Andy Wittman (kk4zkg@gmail.com). If you have never worked this event before or are a new ham, let us know! We will make sure you are stationed with someone who has experience working this event.**

Thank you, this event couldn't happen without your support.

## **NCBC FALL RALLY**

**October 18, 2015 - Sunday - Holly Springs, NC**

\* To Volunteer fill out the form at this [link](#).

**..... Here are some events from our friends in the Charlotte area.... CHECK BACK OFTEN**

I know most of what is discussed here is not from my part of the state, down near Charlotte, but I wanted to pass along some of our Public Service events as well - in case anyone happens to be traveling in the area and wants to help out, or maybe there are some members of the group from the area as well!

**April - September:  
CCTA (Carolina Cycling Time Trial Association)**

This event is held once a month at the Charlotte Motor Speedway. We run this event using a Simplex frequency and handhelds work great. The events normally start at 6:30 pm, so we need to be in place on the track by 6:00 pm.

August 5 (Wednesday – This is the Team Night Event)  
September 2 (Wednesday)

**October 17 - 18**  
**MS Society Break Away to the Beach at Sunset Beach, NC**

**October 24**  
**Cystic Fibrosis Cycling Event in Waxhaw, NC.**

The most versatile pieces of equipment for working as a ham volunteer during public service events are as follows:

#### PRIMARY EQUIPMENT

- \* Dual band (144/440) 25 watt (min) mobile transceiver
- \* A 1/2-5/8 wave well-grounded dual band mobile antenna

#### EXTRAS THAT ARE HELPFUL

- \* Dual Band (144/440) hand held transceiver
- \* Extra set of charged batteries
- \* Ear phones & speaker mic or boom mic/headphone set
- \* Higher gain antenna than the supplied rubber duck. For example Comet BN-24 or SMA-24 or Diamond RHF40 or SRH77CA. There are also many other hi-gain HT antennas available.

*Remember to keep those batteries charged and earplugs handy and check back to this site and [Carolina Helping Hams](http://www.carolinahelpinghams.org) frequently for upcoming events. Hope to see you during one of the events.*

73,  
John - AI4RT

## 2015 Hamfest and Conventions

9/5/2015 Shelby Hamfest  
Location: Cleveland County Fairgrounds  
Website: [www.shelbyhamfest.com](http://www.shelbyhamfest.com)

09/25/2015 | SEDCO W4DXCC  
Location: Pigeon Forge, TN  
SEDCO DX Convention  
Website: [www.w4dxcc.com/index.html](http://www.w4dxcc.com/index.html)

10/03/2015 | [Rock Hill \(SC\) Hamfest](#)  
Location: Rock Hill, SC  
Type: ARRL Hamfest

### **Ham Fair in Tokyo.**

Thanks to Chuck, K4HF for sending this link to me. It's for a Ham Fair in Tokyo with new radios on display. You can click on the subjects on the left side to read about various radios.

<http://www.radiocronache.com/>

### **Radio Society of Great Britain.**

The Radio Society of Great Britain (RSGB) has been around since 1913. They maintain a website at this URL <http://rsgb.org/main/blog/category/front-page-news/> There is a lot of interesting reading at that site.

### **Ferrite Coupled Loop antennas**

The July 2015 issue of RadCom has an article about Ferrite Coupled Loop antennas. RadCom is published monthly by the Radio Society of Great Britain. The article was Witten by Ben Edginto, NG0CWT. His website had a lot of loop antenna information. Check it out at this URL, <http://www.g0cwt.co.uk/Edginton.info/>.

## RARS Classifieds

Copied from [www.rars.org/classifieds.php](http://www.rars.org/classifieds.php)

The items below were listed within the last 30 days on the RARS website.

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### **Elecraft KXPA 100**

Posted August 27th, 2015 by: W4MPS

Contact: [w4mps@nc.rr.com](mailto:w4mps@nc.rr.com)

I will be selling my Elecraft KXPA100 amplifier (S/N: 0985) It's in perfect condition and has been used very little. When I purchased the amp my plan was to use it with my KX3 as a base station combo. Since then, I've opted for a new base rig and, as a result, the KXPA100 gets very little use. Included with the amp:, KXAT100 auto tuner, KXPACBL mating cables for KX3, KXUSB computer interface cable, DC power cable . If you're interested, please contact me directly at [w4mps@arrl.net](mailto:w4mps@arrl.net) and we'll discuss price. If purchased new from Elecraft the above combo assembled goes for ~ \$1,150., tnx, 73, Marc, W4MPS (Clayton, NC)

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### **13.8 VDC 20A Power Supply**

Posted August 26th, 2015 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

This is a GSC 13.8 VDC 20A Power Supply. Looks and works good.

Asking \$45. Contact me by E Mail, preferred, or (919) 872-6555 Thanks, Chuck

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### **Misc Radio Shack Items**

Posted August 14th, 2015 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

**MFJ 260C 300 Watt HF/VHF Dummy Load**, as new, in box \$25

**Heath Model 1416 Code Oscillator**, uses speaker or phones. Requires a straight key and battery - Works. \$10



(Continued from page 23)

**HAM KEYER Model HK5A**, adj. speed, weight, tone and volume. For direct or grid keying. Requires ext. 6vdc, for st. key or paddle - Works. \$20

**Yaesu Model YS-60 SWR/Pwr Meter**, 1.8 to 60 MHz, 3 power levels, requires external 12vdc to light meter but not to use it. With instruction sheet, as new \$45

**B&W Low Pass TVI Filter model FL-10/100** for HF freq. \$5

Contact me by E Mail, preferred or (919) 872-6555, thanks, Chuck

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**For Sale IC-756PROIII (PRO3)**

Posted August 10th, 2015 by: N4TL

Contact: n4tl2@yahoo.com

ICOM IC-756PROIII (PRO3) in excellent shape in the Original box with the Original manual, Original microphone, and the Original power cord. Non smoker, face and cabinet are excellent shape, a great looking and Great performing radio. \$1,700 or reasonable offer. The Radio covers HF bands plus 6 meters. 100 watts output USB, LSB, CW, FM & RTTY.

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**Griffin PowerMate USB Multimedia Controller** - shuttle wheel.

Posted August 2nd, 2015 by: N4TL

Contact: n4tl2@yahoo.com

For Sale, Griffin PowerMate USB Multimedia Controller - shuttle wheel. This is available on line for \$35.99. My price is \$15.00. Tom, N4TL, 919-870-9342, email is N4TL2@yahoo.com

# Upcoming Contests

2015 September VHF: September 12-14

**Objective:** For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada. [Click here](#) for a website with information on this contest.

\*Note: Always check the official rules from the contest sponsor to find the actual dates. More information can be found at these websites.

[www.arrl.org/contests](http://www.arrl.org/contests) [www.hornucopia.com](http://www.hornucopia.com) [www.rars.org/ncqsoparty](http://www.rars.org/ncqsoparty)

## Windows 10 and contesting.

You don't want windows 10 doing a reboot for an update in the middle of a contest. The following information from the ARRL Contest Update for August 12, 2015 tells you how to fix the problem.

As we upgrade our shack computers to Microsoft Windows 10, there are concerns about the policies and particulars of Windows 10 automatic upgrades. Steve, N2IC, [suggests changing a few Windows settings](#) if you're going to be using Windows 10 during contests (you *may* need to be a member of the N1MMLoggerPlus Yahoo group to access this article). A short summary of his comments: In Updates and Security Settings, Advanced Options, change restart after update to "Notify to schedule restart." Also, to minimize peer-to-peer distribution of Windows updates through your computer, turn off the "Windows Update Delivery Optimization" in the same location. N3BUO also suggested [another article on how to disable Windows 10 updates](#).

Popular contests copied from the PVRC website. If you click on a contest name, you will be taken to the corresponding website.

<b>Contest Name</b>	<b>Start Date*</b>	<b>End Date*</b>	<b>Log Due Date*</b>
<a href="#"><u>NA QSO Party - July RTTY</u></a>	7/18/2015	7/19/2015	7/26/2015
<a href="#"><u>CQWW VHF Contest</u></a>	7/18/2015	7/19/2015	8/2/2015
<a href="#"><u>NA QSO Party - August CW</u></a>	8/1/2015	8/2/2015	8/9/2015
<a href="#"><u>WAE CW</u></a>	8/8/2015	8/9/2015	8/23/2015
<a href="#"><u>NA QSO Party - August SSB</u></a>	8/15/2015	8/16/2015	8/23/2015
<a href="#"><u>WAE SSB</u></a>	9/12/2015	9/13/2015	9/27/2015
<a href="#"><u>ARRL September VHF</u></a>	9/12/2015	9/14/2015	10/14/2015
<a href="#"><u>CQWW RTTY</u></a>	9/26/2015	9/27/2016	10/2/2015
<a href="#"><u>CQWW SSB</u></a>	10/24/2015	10/25/2015	10/30/2015
<a href="#"><u>ARRL SS CW</u></a>	11/7/2015	11/9/2015	11/24/2015
<a href="#"><u>WAE RTTY</u></a>	11/14/2015	11/15/2015	11/29/2015
<a href="#"><u>ARRL SS SSB</u></a>	11/21/2015	11/23/2015	12/8/2015
<a href="#"><u>CQWW CW</u></a>	11/28/2015	11/29/2015	12/4/2015
<a href="#"><u>ARRL 160M</u></a>	12/4/2015	12/6/2015	1/5/2016
<a href="#"><u>ARRL 10M</u></a>	12/12/2015	12/14/2015	1/12/2016
<a href="#"><u>ARRL RTTY Round Up</u></a>	1/2/2016	1/3/2016	2/2/2016
<a href="#"><u>NA QSO Party - January CW</u></a>	1/9/2016	1/10/2016	1/17/2016
<a href="#"><u>NA QSO Party - January SSB</u></a>	1/16/2016	1/17/2016	1/24/2016
<a href="#"><u>CQ160 CW</u></a>	1/29/2016	1/31/2016	2/5/2016
<a href="#"><u>ARRL January VHF</u></a>	1/30/2016	2/1/2016	3/2/2016
<a href="#"><u>CQ WPX RTTY</u></a>	2/13/2016	2/14/2016	2/19/2016
<a href="#"><u>ARRL DX CW</u></a>	2/20/2016	2/21/2016	3/22/2016
<a href="#"><u>CQ160 SSB</u></a>	2/26/2016	2/28/2016	3/4/2016
<a href="#"><u>NA QSO Party - February RTTY</u></a>	2/27/2016	2/28/2016	2/6/2016
<a href="#"><u>ARRL DX SSB</u></a>	3/5/2016	3/6/2016	4/5/2016
<a href="#"><u>Russian Dx Contest</u></a>	3/19/2016	3/20/2016	4/3/2016
<a href="#"><u>CQ WPX SSB</u></a>	3/26/2016	3/27/2016	4/1/2016
<a href="#"><u>CQ WPX CW</u></a>	5/28/2016	5/29/2016	6/3/2016
<a href="#"><u>ARRL June VHF</u></a>	6/11/2016	6/13/2016	7/12/2016

## Adding your call sign to your Facebook profile.

By Glenn (KA4GLN)

Many of us use Facebook as way to keep up with family, old friends, and other areas of interest. I recently discovered that Facebook has a method that will allow you to display more than one name on your profile. I expect it was originally developed to allow showing maiden names and such, but it also works very well if you want to display your call sign on your Facebook page. And, it's easy....

1. Go to your profile and click **About** then **Details About You**
2. Click **Add a nickname, a birth name...** below **Other Names**
3. Select the type of name from the dropdown menu next to **Name Type**
4. Enter your call sign

Check **Show at top of profile** to have your other name shown next to your full name at the top of your profile and click **Save Changes**. After adding my call sign, my Facebook page looks like this:

